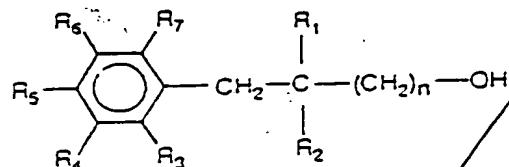
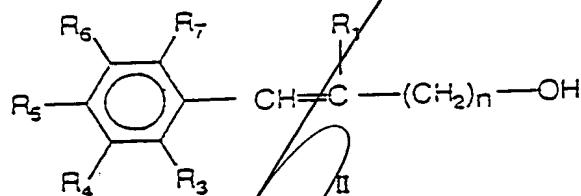


Patent claims

1. A compound of formula I or II,



I



in which

R₂ is selected from C₁-C₈ alkyl, uninterrupted or interrupted by oxygen and/or sulphur atoms, C₂-C₈ alkenyl and C₃-C₈ alkynyl,

R₁ is a significance of R₂, independently of R₂, or in compounds of formula I is hydrogen,

each of R₃ to R₇, independently, is a significance of R₂, optionally attached to the aromatic ring by -S- or -O-, is H, halogen, nitrile or thiocyanate, and

n is 1 or 2,

with the proviso, that in compounds of formula I

i) where R₁ and all groups R₃ to R₇ are hydrogen, then n = 2;

ii) where R_1 and R_2 are C_1-C_6 alkyl and a) all groups R_3 to R_7 are hydrogen or b) R_5 is methyl, methoxy or chloride and all other groups R_3 , R_4 , R_6 and R_7 are hydrogen, then $n = 2$;

iii) where R_1 , R_2 and R_4 are methyl and all groups R_3 and R_5 to R_7 are hydrogen, then $n = 2$;

iv) where R_1 and all groups R_3 , R_4 , R_6 and R_7 are hydrogen and R_5 is methyl, isopropyl, tert. butyl or methoxy, then $n = 2$;

v) where R_1 , R_3 , R_6 and R_7 are hydrogen, R_2 is methyl and R_4 and/or R_5 are H or C_1-C_6 alkyl, then $n = 2$;

vi) where R_1 and R_4 to R_7 are hydrogen, R_2 is methyl or ethyl and R_3 is methyl or methoxy, then $n = 2$;

vii) where R_1 , R_3 , R_5 and R_7 are hydrogen, R_2 is methyl, R_4 and R_6 are methyl or R_4 is hydrogen and R_6 is methyl, then $n = 2$;

viii) where R_1 is hydrogen, R_2 is butyl, R_3 and R_5 are chloride and all other groups R_4 , R_6 and R_7 are hydrogen, then $n = 2$;

and with the proviso, that in compounds of formula II

ix) where R_1 is $C_1 - C_5$ alkyl or allyl and all other groups R_3 to R_7 are hydrogen, then $n = 2$, and

x) where R_1 is methyl, R_5 is methyl and all other groups R_3 , R_4 , R_6 and R_7 are hydrogen, then $n = 2$.

ii) where R_1 and R_2 are C_1-C_6 alkyl and a) all groups R_3 to R_7 are hydrogen or b) R_5 is methyl, methoxy or chloride and all other groups R_3 , R_4 , R_6 and R_7 are hydrogen, then $n = 2$;
iii) where R_1 , R_2 and R_4 are methyl and all groups R_3 and R_5 to R_7 are hydrogen, then $n = 2$;
iv) where R_1 and all groups R_3 , R_4 , R_6 and R_7 are hydrogen and R_5 is methyl, isopropyl, tert. butyl or methoxy, then $n = 2$;
v) where R_1 , R_3 , R_6 and R_7 are hydrogen, R_2 is methyl and R_4 and/or R_5 are H or C_1-C_6 alkyl, then $n = 2$;
vi) where R_1 and R_4 to R_7 are hydrogen, R_2 is methyl or ethyl and R_3 is methyl or methoxy, then $n = 2$;
vii) where R_1 , R_3 , R_5 and R_7 are hydrogen, R_2 is methyl, R_4 and R_6 are methyl or R_4 is hydrogen and R_6 is methyl, then $n = 2$;

and with the proviso, that in compounds of formula II

where R_1 is $C_1 - C_5$ alkyl or allyl and all other groups R_3 to R_7 are hydrogen, then $n = 2$.

2. A compound according to claim 1, in which

in which

R_2 is selected from C_1-C_5 alkyl, uninterrupted or interrupted by oxygen and/or sulphur atoms, C_2-C_5 alkenyl and C_3-C_5 alkynyl,

R_1 is a significance of R_2 , independently of R_2 , or in compounds of formula I is hydrogen,

each of R_3 to R_7 , independently, is a significance of R_2 , optionally attached to the aromatic ring by -S- or -O-, is hydrogen, fluorine, chlorine or bromine.

a 3. A compound according to claim 1 ~~or 2~~ in which R_2 is methyl, ethyl, ethenyl, propyl, propenyl, propargyl, butyl and amyl,

R_1 is a significance of R_2 , independently of R_2 , or in compounds of formula I is hydrogen,

each of R_3 to R_7 , independently, is a significance of R_2 , is hydrogen, methyl-X-, ethyl-X-, ethenyl-X-, propyl-X-, propenyl-X-, propargyl-X-, isopropyl-X-, isopropenyl-X-, t-butyl-X-, methoxymethyl-X-, methoxyethyl-X-, ethoxymethyl-X-, ethoxyethyl-X-, methoxypropyl-X- or ethoxypropyl-X-, where X is -O- or -S-.

a 4. A compound according to ~~any of the preceding claims~~ in which $n = 1$.

Xa 5. A compound according to ~~one of claims 1 to 4~~ which is (\pm) -2-(3-chlorobenzyl) butanol.

a 6. Composition which contains at least one compound of formula I or II according to ~~one of claims 1 to 5~~ and a compound selected from alcohols, surfactants and solvents.

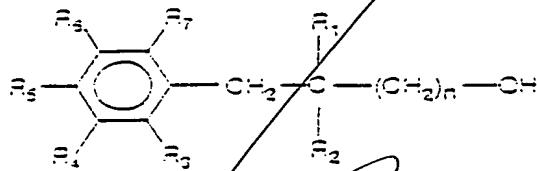
7. Composition according to Claim 6 which contains a compound of formula I or II in a quantity of 0.01 to 10 % by wt., in particular 0.05 to 8 % by wt. and preferably 0.1 to 5 % by wt.

B a 8. Composition according to claim ~~6 or 7~~ which contains
a) 0.01 to 10 % by wt. of a compound of formula I ~~or II~~, and

b) 0.1 to 90 % by wt. of a compound selected from C₁-C₆ alkyl alcohols, unsubstituted or substituted with a C₆-C₁₂ aryl, aralkyl or aryloxy group, anionic, cationic, amphoteric or nonionic surfactants, dimethylform-amide, betaines and glycerine.

a) 9. Composition according to ^{Claim 1} ~~any of claims 6 to 8~~ which is a disinfectant, antiseptic, antimycotic, deodorant or preservative.

X 10. Process for the production of a compound of formula I according to claim 1



in which

R₂ is selected from C₁-C₈ alkyl, uninterrupted or interrupted by oxygen and/or sulphur atoms, C₂-C₈ alkenyl and C₃-C₈ alkynyl,

R₁ is a significance of R₂, independently of R₂, or is hydrogen,

each of R₃ to R₇, independently, is a significance of R₂, optionally attached to the aromatic ring by -S- or -O-, is H, halogen, nitrile or thiocyanate, and

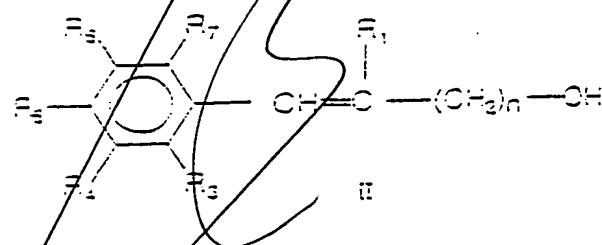
n is 1 or 2,

wherein

- a) a malonic acid dialkyl ester is monoalkylated, as a result of which the group R_2 is introduced,
- b) the monoalkylated malonic acid alkyl ester is dialkylated with a benzyl halide optionally substituted at the aromatic ring, as a result of which the groups R_3 to R_7 are introduced, provided they are not hydrogen,
- c) the dialkylated malonic acid dialkyl ester is saponified and decarboxylated, as a result of which the correspondingly 3-aryl-substituted propionic acid results and
- d) this 3-aryl-substituted propionic acid is reduced with the formation of the desired alcohol of formula I.

11. Process for the production of a compound of formula II according to claim 1

X
in which



R_1 is selected from C_1-C_8 alkyl, uninterrupted or interrupted by oxygen and/or sulphur atoms, C_2-C_8 alkenyl and C_3-C_8 alkynyl,

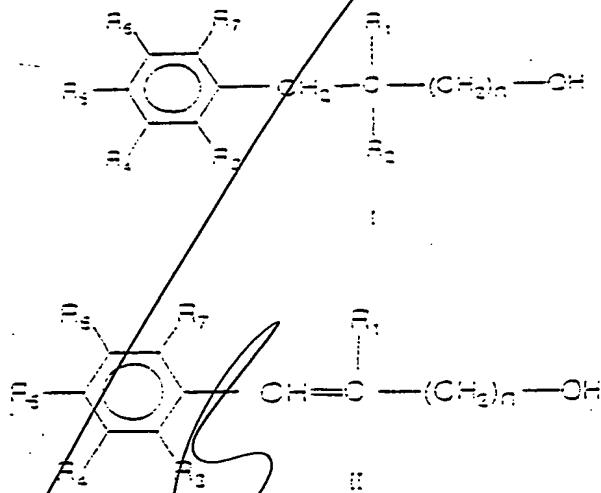
each of R_3 to R_7 , independently, is a significance of R_1 , optionally attached to the aromatic ring by -S- or -O-, is H, halogen, nitrile or thiocyanate, and

n is 1 or 2;

wherein in the case of $n = 1$ a corresponding aromatic aldehyde is condensed with an anhydride with simultaneous decarboxylation and then the resulting acid is reduced with lithium aluminium hydride, or in the case of $n = 2$ the tosy-

late of the respective alcohol with $n = 1$ is substituted nucleophilically by NaCN and is saponified and the resulting acid is reduced with lithium aluminium hydride to give the desired alcohol.

12. Use of a compound of formula I or VI



in which

R_2 is selected from C_1-C_8 alkyl, uninterrupted or interrupted by oxygen and/or sulphur atoms, C_2-C_8 alkenyl and C_3-C_8 alkynyl,

R_1 is a significance of R_2 , independently of R_2 , or in compounds of formula I is hydrogen,

each of R_3 to R_7 , independently, is a significance of R_2 , optionally attached to the aromatic ring by -S- or -O-, is H, halogen, nitrile or thiocyanate, and

n is 1 or 2,

as biocidal active ingredients,

with the proviso, that in compounds of formula I

where R_1 and all groups R_2 , R_4 , R_6 and R_7 are hydrogen and
 R_5 is isopropyl, tert. butyl, then $n = 2$.

add C7

add C3

add C6